Additional Secondary Level School Codes for the Exchange of Data (SCED)

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Subject Area 2: Mathematics

02996 Mathematics—Supplemental

Mathematics—Supplemental courses, designed to be taken in addition to or in coordination with other mathematics courses, provide instruction to assist students in acquiring mathematic skills so that students attain necessary grade-level skills or reach a desired competency level.

Subject Area 3: Life and Physical Sciences

03009 Particular Topics in Earth Science

Particular Topics in Earth Science courses concentrate on a particular subtopic within the field of earth science (such as mineralology) that is not otherwise described within this classification system.

03158 Life Science

Life Science courses cover the basic principles of life and life processes. These topics may include cells, species, ecosystems, reproduction, genetics, or other topics consistent with state academic standards for life science.

03163 AP Physics C: Electricity and Magnetism

Designed by the College Board to parallel college-level physics courses that serve as a partial foundation for science or engineering majors, AP Physics C: Electricity and Magnetism courses focus on electricity and magnetism, including topics such as electrostatistics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. AP Physics C courses require the use of calculus to solve the problems posed.

03164 AP Physics C: Mechanics

Designed by the College Board to parallel college-level physics courses that serve as a partial foundation for science or engineering majors, AP Physics C: Mechanics courses focus on classical mechanics, including topics in kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation. AP Physics C courses require the use of calculus to solve the problems posed.

03165 AP Physics 1

Designed by the College Board to parallel first-semester college-level courses in algebrabased physics, AP Physics 1 courses focus on Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory circuits. These courses may also include college-level laboratory investigations.

03166 AP Physics 2

Designed by the College Board to parallel second-semester college-level courses in algebra-based physics, AP Physics 2 courses cover fluid statics and dynamics; thermodynamics with kinetic theory, PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics. These courses may also include college-level laboratory investigations.

03996 Life and Physical Sciences—Supplemental

Life and Physical Sciences—Supplemental courses, designed to be taken in addition or in coordination with other life and physical science courses, provide instruction to assist students in acquiring science skills so that students attain necessary grade-level skills or reach a desired competency level.

Subject Area 4: Social Science and History

04005 U.S. Geography

U.S. Geography courses provide an overview of the geography of the United States. Topics typically include the physical environment, the political landscape, the relationship between people and the land, and economic production and development.

04996 Social Sciences and History—Supplemental

Social Sciences and History—Supplemental courses, designed to be taken in addition to or in coordination with other social sciences and history courses, provide instruction to assist students in acquiring social studies/social science skills so that students attain necessary grade-level skills or reach a desired competency level.

Subject Area 5: Fine and Performing Arts

05006 Dance Survey

Dance Survey courses provide students with experience in several dance forms (e.g., modern, jazz, ballet, contemporary, tap). Classes introduce students to the fundamental elements of each technique and the common and unique traits among them.

05007 Dance Improvisation

Dance Improvisation courses help students develop an ability to respond kinesthetically in the moment, understand the elements of dance, relate to each other through movement, experiment with choreographic principles, and expand the boundaries of the definition of dance. These courses may emphasize the process of exploration, individual investigation, and group work.

05008 World/Cultural Dance

World/Cultural Dance courses help students develop an understanding of authentic dances from other nations in the context of the people's history, culture, and customs. These courses may involve creating, performing, and responding to dances of other cultures and/or time periods.

05009 Technical Theater for Dance

Technical Theater for Dance courses teach students the basics of lighting, sound, makeup, costuming, stage management, and other aspects of dance concert production. These courses may also include the practical application of skills.

05010 Social Dance

Social Dance courses teach students the steps, spatial formations and patterns, appropriate partner etiquette, and the relationship of the dance(s) to specific music or musical forms as well as historical or cultural contexts. These courses emphasize the distinct forms of partner or group dances and may include a variety of options (e.g., ballroom, folk, contra, and line dances).

05011 Dance Composition/Composition Seminar

Dance Composition/Composition Seminar courses help students gain an understanding of specific choreographic principles and apply those principles to individual movement studies. These courses may emphasize the process of building dance compositions and discovering methods for connecting different dances.

05012 IB Dance

IB Dance courses prepare students to take the International Baccalaureate (IB) Dance assessment at either the standard (SL) or higher level (HL). IB Dance courses help students develop skills in the composition, performance, and analysis of dance. These courses also help students form an historical and global awareness of dance forms and styles.

05060 Musical Theater

Musical Theater courses provide students with the opportunity to experience various aspects of musical theater, including auditioning, singing, acting, and dancing. These courses help students understand the underlying assumptions and values within musical theater and to examine its specific history and evolution, literature, and styles of composition and vocal presentation.

05061 Theatrical Production and Management

Theatrical Production and Management courses prepare individuals to control and direct the planning, design, preparation, and production of theatrical performances. Course content may include instruction in theatrical design, program management, dramatic production, rehearsal management, personnel management and casting, actor coaching, directing concepts and techniques, theater history, scene work, script interpretation, business management, marketing, public relations, and communications skills.

05062 IB Theatre

IB Theatre courses prepare students to take the International Baccalaureate (IB) Theatre exams at either the standard (SL) or higher level (HL). IB Theatre courses encourage students to examine the theory, history, and culture of theatre. These courses also help students develop the organizational and technical skills to express themselves through scripted performance, workshops, and independent project(s).

05120 Strings

Strings courses provide students an introduction to and refine the fundamentals of music and string instrument techniques and may include more advanced techniques. These courses teach students the appropriate care, handling, and maintenance of musical instruments. Formal and informal performances are included as part of string instrument instructional programs.

05121 Contemporary Vocal Ensemble

Contemporary Vocal Ensemble courses help students develop vocal techniques while focusing primarily on contemporary stage literature styles, such as traditional jazz, jazz improvisation, and rock. These courses may also focus on gospel, show choir, or barbershop choral group dynamics.

05122 Culturally Influenced Ensemble

Culturally Influenced Ensemble courses help students perform a variety of cultural music styles, such as Mariachi band, steel drum band, Indian gamelan, or African drumming ensembles. At the same time, these courses help students develop techniques on instruments appropriate to the style(s) performed—brass, woodwind, string, percussion instruments, and/or electronic. Courses emphasize instrumental music but may also include vocal music. Advanced coursework provides students with opportunities for growth through rehearsal and performance, improvisation, or creating and performing their own compositions.

05123 Recording and Production

Recording and Production courses provide students with an opportunity to learn and apply skills in music recording techniques, music editing, mixing, and creating finished musical recordings for distribution as sound files.

05124 Technology/Electronic Music

Technology/Electronic Music courses emphasize current technology as a means to create, record, mix, and otherwise interact with music and music media. These courses focus on experimenting with electronic music technology as part of the process for creating music.

05174 AP Studio Art—Two-Dimensional

AP Studio Art—Two-Dimensional courses focus on a variety of concepts and approaches in drawing and 2-D design, enabling students to demonstrate a range of abilities and versatility with media, technique, problem solving, and scope. Such conceptual variety can be demonstrated through the use of one or several media. These courses enable students to refine their skills and create artistic works to submit via a portfolio to the College Board for evaluation.

05175 AP Studio Art—Three-Dimensional

AP Studio Art—Three-Dimensional courses focus on a variety of concepts and approaches in 3-D design and creation, enabling students to demonstrate a range of abilities and versatility with media, technique, problem solving, and scope. They can demonstrate such conceptual variety through the use of one or several media. These courses enable students to refine their skills and create artistic works to submit via portfolio to the College Board for evaluation.

05176 Calligraphy/Lettering

Calligraphy/Lettering courses teach various styles of inscribing letters, developments in design and lettering, the romance of lettering through the ages, and the modern use of lettering in advertising and art. These courses present a historical and contemporary view of calligraphy, typography, and lettering and provide instruction in the critique process.

05177 Animation

Animation courses focus on the elements of art and principles of design as applied to two- or three-dimensional animation. These courses emphasize interactive use of drawing and design fundamentals, storyboarding, composition and imaging, shadows/shades, audio and sound creation, and editing. Courses may also include a study of the history of animation, aesthetic issues, roles and functions, and instruction in the critique process.

05190 Fashion Design

Fashion Design courses emphasize applying the elements of art and principles of design in creating clothing and accessories and help students identify the relationships between design and clothing. Courses may also include a study of the history of fashion design, aesthetic issues, roles and functions, and instruction in the critique process.

05191 Industrial Design

Industrial Design courses emphasize applying the elements of art and principles of design and provide study of their application in affecting the function, value, and aesthetic of products. These courses help students analyze and use design principles in their industrial design work and may also include a study of the history of industrial design, aesthetic issues, roles and functions, and instruction in the critique process.

05192 Architectural Design

Architectural Design courses emphasize applying the elements of art and principles of design and provide study of their application in architectural design problems. These courses help students analyze and use design principles in their architectural design work. Architectural Design courses may also include a study of the history of architectural design, aesthetic issues, roles and functions, and instruction in the critique process.

05193 Interior Design

Interior Design courses emphasize applying the elements of art and principles of design and provide study of their application in interior design problems. Interior Design courses focus on technical aspects of the design process, including building codes, legal building restrictions, building lot requirements, sustainable materials and construction. These courses help students analyze and use a variety of materials, techniques, and processes in their interior design work. Courses may also include a study of the history of interior design, aesthetic issues, roles and functions, and instruction in the critique process.

Subject Area 10: Computer and Information Services

10010 Computer Literacy

Computer Literacy courses provide to students the knowledge and ability to use computers and technology efficiently. Typically, course content includes exposure to word-processing, spreadsheet, and presentation applications, but also may include the various uses of computers in modern society. Specific course content aligns with state standards to promote students' technological literacy.

10011 Computer Science Principles

Computer Science Principles courses provide students the opportunity use programming, computational thinking, and data analytics to create digital artifacts and documents representing design and analysis in areas including the Internet, algorithms, and the impact that these have on science, business, and society. Computer Science Principles courses teach students to use computational tools and techniques including abstraction, modeling, and simulation to collaborate in solving problems that connect computation to their lives.

10012 Exploring Computer Science

Exploring Computer Science courses present students with the conceptual underpinnings of computer science through an exploration of human computer interaction, web design, computer programming, data modeling, and robotics. While these courses include programming, the focus is on the computational practices associated with doing computer science, rather than just a narrow focus on coding, syntax, or tools. Exploring Computer Science courses teach students the computational practices of algorithm design, problem solving, and programming within a context that is relevant to their lives.

10112 Local Area Networking

Local Area Networking courses introduce students to local area networking (LAN) administration skills, operating systems, basic user skills, defining network objects, building a simple LAN topology applying principles of cabling, LAN switching, designing file systems, managing user access, securing file systems, working with directory service software security, implementing network printing, implementing login scripts, and managing user environments.

10205 Computer Gaming and Design

Computer Gaming and Design courses prepare students to design computer games by studying design, animation, artistic concepts, digital imaging, coding, scripting, multimedia production, and game play strategies. Advanced course topics include, but are not limited to, level design, environment and 3D modeling, scene and set design, motion capture, and texture mapping.

10206 Mobile Applications

Mobile Applications courses provide students with opportunities to create applications for mobile devices using a variety of commercial and open source software. These courses typically address the installation and modification of these applications, as well as customer service skills to handle user issues.

10301 Computer Forensics

Computer Forensics courses address the preservation, identification, extraction, documentation, and interpretation of computer data. Topics covered may include legal concepts, evidence handling and preservation, file system structures, chain of custody, and identification and recovery of computer data. These courses may also cover the need to perform an investigation and how to collect evidence and analyze data.

10302 Cyber Crime

Cyber Crime courses cover legal and ethical behavior associated with network security. Topics may include discussions about current common practices used to secure networks, how to test these networks, and presents methods that can be used to create a secure network environment. These courses may also cover the impact federal and state legislation has had on information technology practices.

10901 Computer Science and Software Engineering (CSE)

In CSE, students create apps for mobile devices, automate tasks in a variety of languages, and find patterns in data. Students collaborate to create and present solutions that can improve people's lives, and weigh the ethical and societical issues of how computing and connectivity are changing the world. This course is the first course of PLTW Computer Science.

Subject Area 11: Communications and Audio/Visual Technology

11004 Social Media

Social Media courses expose students to various types of social media and how social media has influenced society. These courses emphasize the forms, functions, regulations, implications, and utilization of social media.

11106 Emerging Technologies in Journalism

Emerging Technologies in Journalism courses promote the development of the necessary skills for journalism. Course topics may include an exploration of the role media and the communications industry has in society, technical skills related to journalistic writing and interviewing, electronic communications, journalistic blogging, and the ethical and legal issues related to technology in media and communications.

11107 Radio Production

Radio Production courses address practices related to the management and operation of a broadcasting station. Students are introduced to the radio industry, news reporting, and broadcast engineering. In these courses, students learn basic electricity and electronics, including all aspects of safety. Topics typically include operating audio boards, announcing, creating and producing audio scripts, and using digital audio software. Advanced courses may explore direct programming, on-air performance, and analysis of ratio markets.

Subject Area 12: Business and Marketing

12060 Business Ethics

Business Ethics courses focus on the study of ethical principles and the application of those principles to situations relevant to decision making in the professional and business worlds.

12108 Cost Accounting

Cost Accounting courses introduce students to the accounting concepts of manufacturing systems. In addition to job order and process costing systems, these courses emphasize profit planning and control programs.

12109 Income Tax Accounting

Income Tax Accounting courses introduce students to and expand their knowledge of the fundamental accounting principles and procedures used in businesses through integrating and using accounting-related software and information systems. These courses focus on federal, state, and local business tax laws; business tax accounting methods; and the preparation of business tax forms.

12110 Payroll Accounting

Payroll Accounting courses introduce students to and expand their knowledge of the fundamental accounting principles and procedures related to payroll transactions for businesses. These courses typically emphasize computing wages, social security taxes, income tax withholding, unemployment taxes, and recording payroll transactions while providing students with experience in preparing all the necessary monthly, quarterly, and annual reports.

12111 Particular Topics in Accounting

These courses examine particular topics, such as auditing or non-profit accounting, rather than provide a general overview.

12168 Marketing —Commodities

Marketing —Commodities courses investigate the meaning and methods of marketing as related to agricultural commodities, products and services, and agricultural goods in domestic and international markets. Topics typically include appropriate market research; benefit/cost analysis of marketing; and methods of targeted agricultural marketing in domestic and international markets.

12169 Social Media Marketing

Social Media Marketing courses address social media as a marketing tool and emphasize social media tools, social media messages, and search engine optimization. Topics may include, but are not limited to, marketing information management (including marketing research), market planning, channel management, sales, promotion, product/service management, and pricing.

Subject Area 13: Manufacturing

13303 Industrial Maintenance

Industrial Maintenance courses introduce students to the care and maintenance of a wide range of industrial equipment, including chain and gear drives, couplings, and fluid power equipment. Course topics may include lubricants and lubrication, the replacement of seals and bearings, and the correct application and selection of hand and power tools. Advanced courses may emphasize motor alignment using laser alignment, milling operations, turning operations, welding, technical drawings, and quality control.

Subject Area 14: Health Care Sciences

14003 Medical Law and Ethics

Medical Law and Ethics courses introduce students to the principles of medical law, medical ethics, and bioethics. These courses emphasize the function of law and ethical issues as it applies to the medical environment.

14156 Medical Coding and Transcription

Medical Coding and Transcription courses introduce students to the International Classification of Diseases, Clinical Modification and its system of hospital codes for diagnoses and procedures. These courses provide opportunities for students to practice and develop skills in the use of transcription equipment and to gain familiarity with common formats of medical terminology and reports.

14157 Health Informatics and Data Management

Health Informatics and Data Management courses introduce students to automated information systems in the health care delivery system. These courses teach students terminology and essential concepts of health information systems and management of data, including the purpose, content, and structure of health data; numbering and filing systems; storage and retention methods; and the construction and design of forms, records, indexes, and registers. These courses may also examine data integrity, privacy/security issues, and the purposes of accreditation and regulatory standards in developing health record practice guidelines.

14255 Biomedical Innovation

Biomedical Innovation courses help students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. These courses help students design innovative solutions for emerging health challenges and address topics such as clinical medicine, human physiology, medical innovation, water contamination, public health, molecular biology, and forensic autopsy, and public health. These courses may also provide students with the opportunity to work with a mentor or advisor from a university or hospital, physician's office, or industry. Students may design and complete an independent project as part of the course.

14901 Principles of the Biomedical Sciences

Students explore biology concepts through the study of human diseases. Students determine the factors that led to the death of a fictional periods, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine and research processes.

14902 Human Body Systems

Students examine the interactions of human body systems as they explore identity, power, movement, protection and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action and respiration.

14903 Medical Interventions

Students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. Students explore how to prevent and fight infection; screen and evaluate the code in human DNA; prevent, diagnose and treat cancer; and prevail when the organs of the body begin to fail.

Subject Area 15: Public, Protective, and Government Service

15054 Law Enforcement

Law Enforcement courses provide an overview of the history, organization, and functions of local, state, and federal law enforcement and foundational skills necessary to fulfill law enforcement duties. Course topics vary and may include, but are not limited to, the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, physical fitness, self-defense, and skill necessary to fulfill law enforcement duties. Advanced courses may explore specific types of crimes, ethical and legal responsibilities, crime scene investigations, emergency medical procedures, use of force, and prisoner transport.

15055 Forensic Science

Forensic Science courses provide an overview of the theoretical understanding and practical application of forensic science techniques. These courses explore the applied science and the fields of biology, chemistry, physics, and crime science investigation. Topics typically covered may include genetics, anthropology, toxicology, entomology, ballistics, pathology, computer forensics, fire debris and trace evidence among others.

15056 Crime Scene Management

Crime Scene Management courses provide the skills and knowledge necessary for criminalistics - the securing, investigating, and processing of a crime scene. Topics may include, but are not limited to, evidence collection and preservation, finger printing, sketching, securing and photographing the crime scene, and chain of custody.

15057 Criminal Law and Procedures

Criminal Law and Procedures courses provide students with knowledge and skills related to understanding criminal law, constitutional amendments, and due process. Course content may include specific types of crimes, such as vehicle crimes, personal crimes, cyber crimes, drug crimes, and crimes related to child pornography or pedophiles.

15058 Ethics in Criminal Justice

Ethics in Criminal Justice courses cover ethical standards and codes of professional behavior for police officers and others placed in positions of public trust. Topics may include use of force, gratuities, intra- and inter-agency conduct, integrity, ethical necessity of due process, and on-duty and off-duty conduct.

15104 Public Safety Telecommunications

Public Safety Telecommunications courses provide students with the skills and knowledge necessary to obtain national certification in Public Safety

Telecommunications and/or employment as a 911 telecommunicator. Course content may include, but is not limited to, understanding standard federal, state, and local telecommunication operating procedures; functions, terminology, and types of telecommunication equipment; malfunctions and maintenance agreements; proper and correct telephone and dispatching procedures and techniques; emergency situations and operating procedures; and emergency medical dispatch procedures.

Subject Area 16: Hospitality and Tourism

16204 Recreation, Amusement, and Attractions Management

Recreation, Amusement, and Attractions Management courses teach students about the development and management of recreational areas and parks and cover the economic and environmental impact of tourism. These courses may also emphasize career skills relative to the outdoor parks, recreation, and tourism industries.

Subject Area 17: Architecture and Construction

17013 Commercial Construction

Commercial Construction courses focus on residential construction principles and their relationship to commercial applications. Topics typically covered include commercial concrete forming, reinforcement and placement methods, stair construction, metal framing, interior finishes, suspended ceiling systems, metal framing and drywall applications, and commercial roofing methods and systems. These courses may also address equipment and tool usage in commercial construction.

17014 Concrete Foundations

Concrete Foundations courses cover concrete and its relationship to construction and concrete safety and testing techniques.

17015 Construction Estimating

Construction Estimating courses provide students with the opportunity to learn the fundamental principles of construction estimating. Course topics typically include procedures for estimating costs in different divisions of a project and determining the critical quantities of materials obtained from a set of plans.

17016 Construction Management

Construction Management courses introduce students to the concept of the project team, use of documents on a construction site, submittals, shop drawings, jobsite layout, meeting control, safety management, changes and claims forms, documents, and project closeout record keeping. Topics may also include construction law, construction contracts, and how to work with owners and subcontractors.

17017 Particular Topics in Construction

These courses provide students with specialized knowledge and help them develop skills in particular topics concerning the processes, responsibilities, and occupations of the construction industry.

Subject Area 18: Agriculture, Food, and Natural Resources

18004 Biological Applications in Agriculture

Biological Applications in Agriculture courses are designed to integrate topics in science and agriculture. In these courses, students explore the world of agriculture and the associated biological principles. Competencies emphasize and reinforce standards for biology with agricultural applications.

18005 Particular Topics in Environmental Service Systems

These courses provide students with specialized knowledge and help them develop skills in particular topics concerning the structure, processes, and implementation of environmental service systems.

18107 Animal Nutrition

Animal Nutrition courses provide students with opportunities to study the structure and function of organic and inorganic nutrients. Topics may include the essential nutritive requirements of domestic livestock, poultry, and companion animals; digestion, absorption, metabolism, and barriers for nutrient utilization; sources of nutrients; application of energy systems and concepts; and regulation of feed intake in animals. These courses also teach students how to compare and contrast the nutritional levels for animal maintenance and production.

18108 Animal Genetics

Animal Genetics courses explore genetic inheritance in agricultural animals and the identification of livestock breeds by the origin, significance, distribution, and domestication of animal species. These courses allow students to compare and contrast the hierarchical classification of the major agricultural animal species and identify breeding system options based on the principles of genetics. These courses also address selecting animals based on quantitative breeding values for specific characteristics.

18109 Integrated Pest Management

Integrated Pest Management courses help students develop an understanding of the life cycles of and damage caused by pests, diseases, and weeds. Course topics may include the application of pesticides and/or herbicides to manage pest populations and assessing the effectiveness of pest management plans.

18205 Agriculture Computers and Technology

Agriculture Computers and Technology courses help students develop their knowledge and skills in using computer and other technology to operate and manage agricultural businesses. These courses allow students to use computer hardware, software, and the Internet to find information, record and analyze financial and production data, track market trends and economic forecasts, monitor weather, utilize global positioning systems, and prepare communications and reports.

18310 Sustainable/Alternative Agriculture

Sustainable/Alternative Agriculture courses explore technological and environmental changes and concerns. These courses address alternative approaches to food production including, but not limited to, organics, low-input, natural, and sustainable production methodology and practices. Course content may include comparing the effects of alternative production practices to those of conventional production practices.

18311 Viticulture

Viticulture courses prepare students for further studies in grape-growing, viticulture, and wine-making industry. Course topics typically include establishing and managing vineyards; harvesting; fermentation and wine making; marketing; and exploring career options within the industry. Agricultural applications specific to vineyards and wineries are emphasized.

18406 Water Treatment

Water Treatment courses provide instruction regarding the environmental hazards associated with identifying and accepting waste water disposal. Course topics typically include waste water, the steps in waste water treatment, compliance with applicable regulations, and the use of water-testing instruments and water-treatment equipment to treat wastewater.

18506 Alternative Energy

Alternative Energy courses help students identify renewable and nonrenewable energy sources and natural resources. Topics typically include alternative energy sources and their respective advantages and disadvantages; the impact of conventional and alternative energy sources on the environment; the efficiency of energy production from various sources; and careers in the fields of alternative energy and sustainability.

Subject Area 19: Human Services

19155 Instructional Technology

Instructional Technology courses address the implementation of technical devices and processes that are used to improve and facilitate learning. Content includes, but is not limited to, productivity tools, interactive multimedia, communications, educational software and hardware, instructional applications, and ethical, legal, social, and professional issues.

19301 Counseling and Mental Health

Counseling and Mental Health courses provide students with the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. These courses allow students to apply their knowledge of ethical and legal responsibilities, the limitations of these responsibilities, and the implications of their actions.

Subject Area 20: Transportation, Distribution and Logistics

20055 Pilot Training

Pilot Training courses prepare students to become pilots by participating in flight training, ground school, and simulator instruction. Topics covered typically include preflight operations; flight maneuvering with reference to ground objects; flying at critically slow air speeds and recovering from stalls; takeoffs and landings; controlling and maneuvering an aircraft; cross country flying; night flying; and emergency operation. Other course content may include meteorology, aerodynamics, navigation, physiology, and airfield and flight environments.

20119 Hybrid Engines

Hybrid Engines courses introduce students to the fundamentals of hybrid electric vehicles. These courses explore the hybrid power plant and may include such topics as hybrid batteries, high- and low-voltage systems, inverters, safety procedures, hybrid maintenance and diagnostics, and alternative fuels.

20120 Motorsports Technology

Motorsports Technology courses provide students with an understanding of the principles of race car fabrication and all facets of the racing industry. Technical aspects of the courses may include skill development in vehicle assembly of high-performance engines and components using specialty tools, welding, and auto body procedures. Course content may also explore the motorsports technology industry, address safety issues, and identify careers in the field.

Subject Area 21: Engineering and Technology

21016 Engineering Analysis

Engineering Analysis courses help students apply engineering design processes to areas of the designed world, explore ethics in a technological world, and examine systems in civil, mechanical, electrical, and chemical engineering. These courses may provide STEM-based projects to teach students to communicate information through team-based presentations, proposals, and technical reports.

21057 Laser/Fiber Optics

Laser/Fiber Optics courses cover the history, safety, and theory of laser light and laser systems. In these courses, various laser system configurations and operations are examined.

21058 Geospatial Technology

Geospatial Technology courses provide students with experiences pertaining to the study of geographic information systems (GIS), global positioning systems (GPS), remote sensing (RS), digital image processing simulator (DIPS), Geodesy, automated cartography (Auto-Carto), land surveying (LS), and navigation. These courses may use spatial analysis models and guidelines for integrating, interpreting, analyzing, and synthesizing geographic data, with a focus on both the implications and limitations of such technologies. Other topics may include interfacing with telecommunications and automated database management systems.

21059 Modeling and Simulation Technology

Modeling and Simulation Technology courses allow students to explore the use of modeling, simulation, and game development software to solve real-world problems in science, technology, engineering, and mathematics (STEM). These courses typically address the systems, processes, tools, and implications of the field of modeling and simulation technology. Courses topics may also include evaluating and testing engineering designs, modeling geospatial data, observing and analyzing physics simulations, programming games for educational purposes, and creating visualization systems with 3D models.

21060 Wind Energy

Wind Energy courses introduce students to the terminology and other aspects of the wind industry. Course topics may include, but at not limited to, the history and development of the wind industry, types and applications of various wind turbines, environmental and economic issues of the wind industry, and the future of the industry.

21061 Wind Turbine Construction and Operation

Wind Turbine Construction and Operation courses provide students with an understanding of wind turbine operation and the wind energy industry. These course enable students to study site preparation and construction, turbine component specifications and manufacturing, operation and maintenance programs, and data acquisition and assessment.

Subject Area 22: Miscellaneous

22007 Advancement Via Individual Determination (AVID)

AVID courses encourage students to pursue college readiness (and eventual enrollment). Typically, the courses offer activities that enable students to learn organizational and study skills, enhance their critical thinking skills, receive academic assistance as necessary, and be motivated to aspire to college education.

22110 AP Seminar

Designed by the College Board to parallel college-level courses in critical thinking and communications, AP Seminar courses provide students with the opportunity to explore complex real world issues through cross-curricular lenses. Course topics vary and may include local, civic, or global issues and interdisciplinary subject areas. Courses typically emphasize research, communication, and critical-thinking skills to explore the issues addressed. Students may also examine source materials such as articles and other texts; speeches and personal accounts; and relevant artistic and literary works.

22250 Exploratory

Exploratory courses provide a brief introduction to a variety of topics, typically elective subject areas, often in the form of discrete units or modules. Students may choose to take courses later that allow them to pursue the topics introduced in more depth. Topics may vary widely and span multiple subject areas within one course.

Appendix A: List of Additional SCED Course Titles and Codes in Numeric Order

Subject Area 2: Mathematics

02996 Mathematics - Supplemental

Subject Area 3: Life and Physical Sciences

03009	Particular Topics in Earth Science
03158	Life Science
03163	AP Physics C: Electricity and Magnetism
03164	AP Physics C: Mechanics
03165	AP Physics 1
03166	AP Physics 2

Subject Area 4: Social Science and History

04005 U.S. Geography

03996

04996 Social Sciences and History—Supplemental

Life and Physical Sciences—Supplemental

Subject Area 5: Fine and Performing Arts

05006	Dance Survey
05007	Dance Improvisation
05008	World/Cultural Dance
05009	Technical Theater for Dance
05010	Social Dance
05011	Dance Composition/Composition Seminar
05012	IB Dance
05060	Musical Theater
05061	Theatrical Production and Management
05062	IB Theatre
05120	Strings
05121	Contemporary Vocal Ensemble
05122	Culturally Influenced Ensemble
05123	Recording and Production
05124	Technology/Electronic Music
05174	AP Studio Art—Two-Dimensional
05175	AP Studio Art—Three-Dimensional
05176	Calligraphy/Lettering
05177	Animation
05190	Fashion Design
05191	Industrial Design
05192	Architectural Design
05193	Interior Design

Subject Area 10: Computer and Information Services

10010	Computer Literacy
10011	Computer Science Principles
10012	Exploring Computer Science

10112	Local Area Networking
10205	Computer Gaming and Design
10206	Mobile Applications
10301	Computer Forensics
10302	Cyber Crime
10901	Computer Science and Software Engineering (CSE)

Subject Area 11: Communications and Audio/Visual Technology

11004	Social Media
11106	Emerging Technologies in Journalism
11107	Radio Production

Subject Area 12: Business and Marketing

12060	Business Ethics
12108	Cost Accounting
12109	Income Tax Accounting
12110	Payroll Accounting
12111	Particular Topics in Accounting
12168	Marketing —Commodities
12169	Social Media Marketing

Subject Area 13: Manufacturing

13303 Industrial Maintenance

Subject Area 14: Health Care Sciences

14003	Medical Law and Ethics
14156	Medical Coding and Transcription
14157	Health Informatics and Data Management
14255	Biomedical Innovation
14901	Principles of the Biomedical Sciences
14902	Human Body Systems
14903	Medical Interventions

Subject Area 15: Public, Protective, and Government Services

15054	Law Enforcement
15055	Forensic Science
15056	Crime Scene Management
15057	Criminal Law and Procedures
15058	Ethics in Criminal Justice
15104	Public Safety Telecommunications

Subject Area 16: Hospitality and Tourism

16204 Recreation, Amusement, and Attractions Management

Subject Area 17: Architecture and Construction

17013	Commercial Construction
17014	Concrete Foundations

17015	Construction Estimating
17016	Construction Management
17017	Particular Topics in Construction

Subject Area 18:	Agriculture, Food, and Natural Resources
18004	Biological Applications in Agriculture
18005	Particular Topics in Environmental Service Systems
18107	Animal Nutrition
18108	Animal Genetics
18109	Integrated Pest Management
18205	Agriculture Computers and Technology
18310	Sustainable/Alternative Agriculture
18311	Viticulture
18406	Water Treatment
18506	Alternative Energy

Subject Area 19: Human Services

19155	Instructional Technology
19301	Counseling and Mental Health

Subject Area 20: Transportation, Distribution and Logistics

20055	Pilot Training
20119	Hybrid Engines
20120	Motorsports Technology

Subject Area 21: Engineering and Technology

Engineering Analysis
Laser/Fiber Optics
Geospatial Technology
Modeling and Simulation Technology
Wind Energy
Wind Turbine Construction and Operation

Subject Area 22: Miscellaneous

22007	Advancement Via Individual Determination (AVID)
22110	AP Seminar
22250	Exploratory

Appendix B: List of Additional SCED Course Titles and Codes in Alphabetical Order

Advancement Via Individual Determination (AVID) 18205 Agriculture Computers and Technology 18506 Alternative Energy 18108 Animal Genetics 18107 Animation 18107 Animation 18105 AP Physics 1 18106 AP Physics 1 18106 AP Physics 2 18106 AP Physics C: Electricity and Magnetism 18107 Animation 18106 AP Physics C: Mechanics 18107 AP Seminar 18107 AP Seminar 18108 AP Seminar 18108 AP Studio Art—Three-Dimensional 18109 Architectural Design 181004 Biological Applications in Agriculture 18205 Biomedical Innovation 18206 Business Ethics 18206 Business Ethics 18207 Calligraphy/Lettering 18208 Computer Forensics 18209 Computer Gaming and Design 18209 Computer Science and Software Engineering (CSE) 18209 Computer Science Principles 18209 Construction Estimating 18209 Construction Estimating 18209 Construction Management 18209 Cost Accounting 18209 Cothemporary Vocal Ensemble 18209 Cothemporary Vocal Ensemble 18209 Counseling and Mental Health 18209 Cyber Crime 18209 Conce Survey 1820 Animal Audit Pocadures 18209 Conce Survey 18209 Ethics in Criminal Justice	22007	Advancement Via Individual Determination (AVID)
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05007 Dance Improvisation 05006 Dance Survey 11106 Emerging Technologies in Journalism 21016 Engineering Analysis	10302	Cyber Crime
05006 Dance Survey 11106 Emerging Technologies in Journalism 21016 Engineering Analysis	05011	Dance Composition/Composition Seminar
11106 Emerging Technologies in Journalism 21016 Engineering Analysis	05007	Dance Improvisation
21016 Engineering Analysis	05006	Dance Survey
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15058 Ethics in Criminal Justice	21016	Engineering Analysis
	15058	Ethics in Criminal Justice
22250 Exploratory	22250	Exploratory
10012 Exploring Computer Science	10012	Exploring Computer Science
05190 Fashion Design	05190	Fashion Design
15055 Forensic Science	15055	Forensic Science

24050	Consensation To shore lower
21058	Geospatial Technology
14157	Health Informatics and Data Management
14902	Human Body Systems
20119	Hybrid Engines
05012	IB Dance
05062	IB Theatre
12109	Income Tax Accounting
05191	Industrial Design
13303	Industrial Maintenance
19155	Instructional Technology
18109	Integrated Pest Management
05193	Interior Design
21057	Laser/Fiber Optics
15054	Law Enforcement
03996	Life and Physical Sciences—Supplemental
03158	Life Science
10112	Local Area Networking
12168	Marketing —Commodities
02996	Mathematics - Supplemental
14156	Medical Coding and Transcription
14903	Medical Interventions
14003	Medical Law and Ethics
10206	Mobile Applications
21059	Modeling and Simulation Technology
20120	Motorsports Technology
05060	Musical Theater
12111	Particular Topics in Accounting
17017	Particular Topics in Construction
03009	Particular Topics in Earth Science
18005	Particular Topics in Environmental Service Systems
12110	Payroll Accounting
20055	Pilot Training
14901	Principles of the Biomedical Sciences
15104	Public Safety Telecommunications
11107	Radio Production
05123	Recording and Production
16204	Recreation, Amusement, and Attractions Management
05010	Social Dance
11004	Social Media
12169	Social Media Marketing
04996	Social Sciences and History—Supplemental
05120	Strings
18310	Sustainable/Alternative Agriculture
05009	Technical Theater for Dance
05124	Technology/Electronic Music
05061	Theatrical Production and Management
04005	U.S. Geography

18311	Viticulture
18406	Water Treatment
21060	Wind Energy
21061	Wind Turbine Construction and Operation
05008	World/Cultural Dance